

<b>INFORMATION DISCLOSURE CITATION IN AN APPLICATION</b>  Form PTO-1449				Docket Number		Application Number	
				23480-501		10/047,759	
				Applicant(s)			
				Cheng LEE <i>et al.</i>			
Filing Date				Group Art Unit			
January 15, 2002				1743			
<b>U.S. PATENT DOCUMENTS</b>							
*EXAMINER INITIAL	REF	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
an	1A	4,576,702	03/18/1986	Peck <i>et al.</i>	204	299	
an	1B	5,102,518	04/07/1992	Doering <i>et al.</i>	204	180.1	
an	1C	5,217,591	06/08/1993	Gombocz <i>et al.</i>	204	299	
an	1D	5,275,710	01/04/1994	Gombocz <i>et al.</i>	204	299	
an	1E	5,505,831	04/09/1996	Liao <i>et al.</i>	204	451	
an	1F	5,541,420	07/30/1996	Kambara	204	602	
an	1G	5,587,062	12/24/1996	Togawa <i>et al.</i>	204	613	
<b>FOREIGN PATENT DOCUMENTS</b>							
	REF	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translations YES NO
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>							
an	1H	HILLENKAMP <i>et al.</i> , "Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry of Biopolymers", <u>Analytical Chemistry</u> , Volume 63, No. 24, December 15, 1991, pages 1193A-1202A. ✓					
an	1I	FENSELAU, "MALDI-MS and Strategies for Protein Analysis", <u>Analytical Chemistry News &amp; Features</u> , Volume 69, November 1, 1997, pages 661A-665A. ✓					
an	1J	KEBARLE <i>et al.</i> , "From Ions in Solution to Ions in the Gas Phase—The Mechanism of Electrospray Mass Spectrometry", <u>Analytical Chemistry</u> , Volume 65, No. 22, November 15, 1993, pages 972A-986A. ✓					
an	1K	YATES, III, "Special Feature: Tutorial: Mass Spectrometry and the Age of the Proteome", <u>Journal of Mass Spectrometry</u> , Volume 33, 1998, pages 1-19. ✓					
an	1L	KLOSE <i>et al.</i> , "Two-Dimensional Electrophoresis of Proteins: An Updated Protocol and Implications for a Functional Analysis of the Genome", <u>Electrophoresis</u> , Volume 16, 1995, pages 1034-1059. ✓					
an	1M	JUNGBLUT <i>et al.</i> , "Resolution Power of Two-Dimensional Electrophoresis and Identification of Proteins from Gels", <u>Electrophoresis</u> , Volume 17, 1996, pages 839-847. ✓					
an	1N	RABILLOU, "Detecting Proteins Separated by 2-D Gel Electrophoresis", <u>Analytical Chemistry</u> , Volume 72, January 1, 2000, pages 48A-55A. ✓					
an	1O	SHEVCHENKO <i>et al.</i> , "Mass Spectrometric Sequencing of Proteins from Silver-Stained Polyacrylamide Gels", <u>Analytical Chemistry</u> , Volume 68, No. 5, March 1, 1996, pages 850-858. ✓					
an	1P	SHEVCHENKO <i>et al.</i> , "Linking Genome and Proteome by Mass Spectrometry: Large-Scale Identification of Yeast Proteins from Two Dimensional Gels", <u>Proc. Natl. Acad. Sci. USA</u> , Volume 93, December 1996, pages 14440-14445. ✓					
an	1Q	GYGI <i>et al.</i> , "Evaluation of Two-Dimensional Gel Electrophoresis-Based Proteome Analysis Technology", <u>Proc. Natl. Acad. Sci. USA</u> , Volume 97, No. 17, August 15, 2000, pages 9390-9395. ✓					

EXAMINER	DATE CONSIDERED
an	6/29/04
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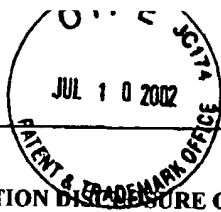
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							YES	NO

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an	2B	BURGI <i>et al.</i> , "Optimization in Sample Stacking for High-Performance Capillary Electrophoresis", <u>Analytical Chemistry</u> , Volume 63, No. 18, September 15, 1991, pages 2042-2047.	✓
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an	2D	CHIEN <i>et al.</i> , "Sample Stacking of an Extremely Large Injection Volume in High-Performance Capillary Electrophoresis", <u>Analytical Chemistry</u> , Volume 64, No. 9, May 1, 1992, pages 1046-1050.	✓
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an	2F	RAMSEY <i>et al.</i> , "Generating Electrospray from Microchip Devices Using Electroosmotic Pumping", <u>Analytical Chemistry</u> , Volume 69, No. 6, March 15, 1997, pages 1174-1178.	✓
an	2G	OLESCHUK <i>et al.</i> , "Analytical Microdevices for Mass Spectrometry", <u>Trends in Analytical Chemistry</u> , Volume 19, No. 6, 2000, pages 379-388.	✓
an	2H	GATLIN <i>et al.</i> , "Protein Identification at the Low Femtomole Level from Silver-Stained Gels Using a New Fritless Electrospray Interface for Liquid Chromatography-Microspray and Nanospray Mass Spectrometry", <u>Analytical Biochemistry</u> , Volume 263, 1998, Article No. AB982809, pages 93-101.	✓
an	2I	SCHULER <i>et al.</i> , "Peptide Mass Fingerprint Sequence Coverage from Differently Stained Proteins on Two-Dimensional Electrophoresis Patterns by Matrix Assisted Laser Desorption/Ionization-Mass Spectrometry (MALDI-MS)", <u>Electrophoresis</u> , Volume 19, 1998, pages 918-927.	✓
an	2J	RAMSAMOOJ <i>et al.</i> , "Differential Expression of Proteins in Radioresistant and Radiosensitive Human Squamous Carcinoma Cells", <u>Journal of the National Cancer Institute</u> , Volume 84, No. 8, April 15, 1992, pages 622-628.	✓
an	2K	WILKINS <i>et al.</i> , "Proteome Research: New Frontiers in Functional Genomics", Published by Springer, Berlin, 1997, pages 187-219.	✓

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Allen Noguera	6/29/04
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						YES	NO

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

an	3A	OSTERGAARD <i>et al.</i> , "Psoriasis (S100A7): A Putative Urinary Marker for the Follow-Up of Patients with Bladder Squamous Cell Carcinomas", <u>Electrophoresis</u> , Volume 20, 1999, 349-354.	✓
an	3B	PAGE <i>et al.</i> , "Proteomic Definition of Normal Human Luminal and Myoepithelial Breast Cells Purified from Reduction Mammoplasties", <u>Proc. Natl. Acad. Sci. USA</u> , Volume 96, No. 22, October 26, 1999, pages 12589-12594.	✓
an	3C	WILM <i>et al.</i> , "Femtomole Sequencing of Proteins from Polyacrylamide Gels by Nano-Electrospray Mass Spectrometry", <u>Nature</u> , Volume 379, February 1, 1996, pages 466-469.	✓
an	3D	LOTTSPREICH, "Proteome Analysis: A Pathway to the Functional Analysis of Proteins", <u>Angew. Chem. Int. Ed.</u> , Volume 38, 1999, pages 2476-2492.	✓
an	3E	PANDEY <i>et al.</i> , "Proteomics to Study Genes and Genomes", <u>Nature</u> , Volume 405, June 15, 2000, pages 837-846.	✓
an	3F	BINZ <i>et al.</i> , "A Molecular Scanner to Automate Proteomic Research and to Display Proteome Images", <u>Analytical Chemistry</u> , Volume 71, No. 21, November 1, 1999, pages 4981-4988.	✓
an	3G	BIENVENUT <i>et al.</i> , "Toward a Clinical Molecular Scanner for Proteome Research: Parallel Protein Chemical Processing Before and During Western Blot", <u>Analytical Chemistry</u> , Volume 71, No. 21, November 1, 1999, pages 4800-4807.	✓
an	3H	HJERTEN <i>et al.</i> , "Adaptation of the Equipment for High-Performance Electrophoresis to Isoelectric Focusing", <u>Journal of Chromatography</u> , Volume 346, 1985, pages 265-270.	✓
an	3I	HJERTEN <i>et al.</i> , "Carrier-Free Zone Electrophoresis, Displacement Electrophoresis, and Isoelectric Focusing in a High-Performance Electrophoresis Apparatus", <u>Journal of Chromatography</u> , Volume 403, 1987, pages 47-61.	✓
an	3J	KILAR <i>et al.</i> , "Fast and High Resolution Analysis of Human Serum Transferrin by High Performance Isoelectric Focusing in Capillaries", <u>Electrophoresis</u> , Volume 10, 1989, pages 23-29.	✓
an	3K	YEFIMOV <i>et al.</i> , "Transfer of SDS-Proteins from Gel Electrophoretic Zones into Mass Spectrometry, Using Electroelution of the Band into Buffer Without Sectioning of the Gel", <u>Journal of Biochemical and Biophysical Methods</u> , Volume 42, 2000, pages 65-78.	✓
an	3L	YEFIMOV <i>et al.</i> , "Recovery of Sodium Dodecyl Sulfate-Proteins from Gel Electrophoretic Bands in a Single Electroelution Step for Mass Spectrometry Analysis", <u>Analytical Biochemistry</u> , Volume 284, 2000, pages 288-295.	✓

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Group Art Unit

**January 15, 2002**

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[illegible]

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[illegible]

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an	4A	GALVANI <i>et al.</i> , "Letter to the Editor", <u>Rapid Communications in Mass Spectrometry</u> , Volume 14, 2000, pages 721-723.
an	4B	CLARKE <i>et al.</i> , "One Step Microelectroelution Concentration Method for Efficient Coupling of Sodium Dodecylsulfate Gel Electrophoresis and Matrix-Assisted Laser Desorption Time-of-Flight Mass Spectrometry for Protein Analysis", <u>Journal of the American Society of Mass Spectrometry</u> , Volume 9, 1998, pages 88-91.
an	4C	TOMLINSON <i>et al.</i> , "Improved On-Line Membrane Preconcentration—Capillary Electrophoresis (mPC-CE)", <u>Journal of High Resolution Chromatography</u> , Volume 18, June 1995, pages 381-383.
an	4D	TIMPERMAN <i>et al.</i> , "Peptide Electroextraction for Direct Coupling of In-Gel Digests with Capillary LC-MS/MS for Protein Identification and Sequencing", <u>Analytical Chemistry</u> , Volume 72, No. 17, September 1, 2000, pages 4115-4121.
an	4E	GUTTMAN <i>et al.</i> , "Rapid Analysis of Covalently and Non-Covalently Fluorophore-Labeled Proteins Using Ultra-Thin-Layer Sodium Dodecylsulfate Gel Electrophoresis", <u>Journal of Chromatography A</u> , Volume 894, 2000, pages 329-335.
an	4F	CSAPO <i>et al.</i> , "Automated Ultra-Thin-Layer SDS Gel Electrophoresis of Proteins Using Noncovalent Fluorescent Labeling", <u>Analytical Chemistry</u> , Volume 72, No. 11, June 1, 2000, pages 2519-2525.

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Q.4	C	SHOJI <i>et al.</i> , "Electrophoretic Recovery of Proteins from Polyacrylamide Gel", <u>Journal of Chromatography A</u> , Volume 698, 1995, pages 145-162.

EXAMINER <i>Ch. Nazarek</i>	DATE CONSIDERED <i>6/29/04</i>
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